

TITLE: COMPOSITIONS AND METHODS FOR REGULATING APOPTOSIS
INVENTOR NAME: Yigang Shi
APPLICATION NO.: Not yet assigned
DOCKET NO.: PU-0031
ATTORNEY NAME: Janet E. Reed PHONE NO.: (215)564-3100
SHEET 1 OF 14

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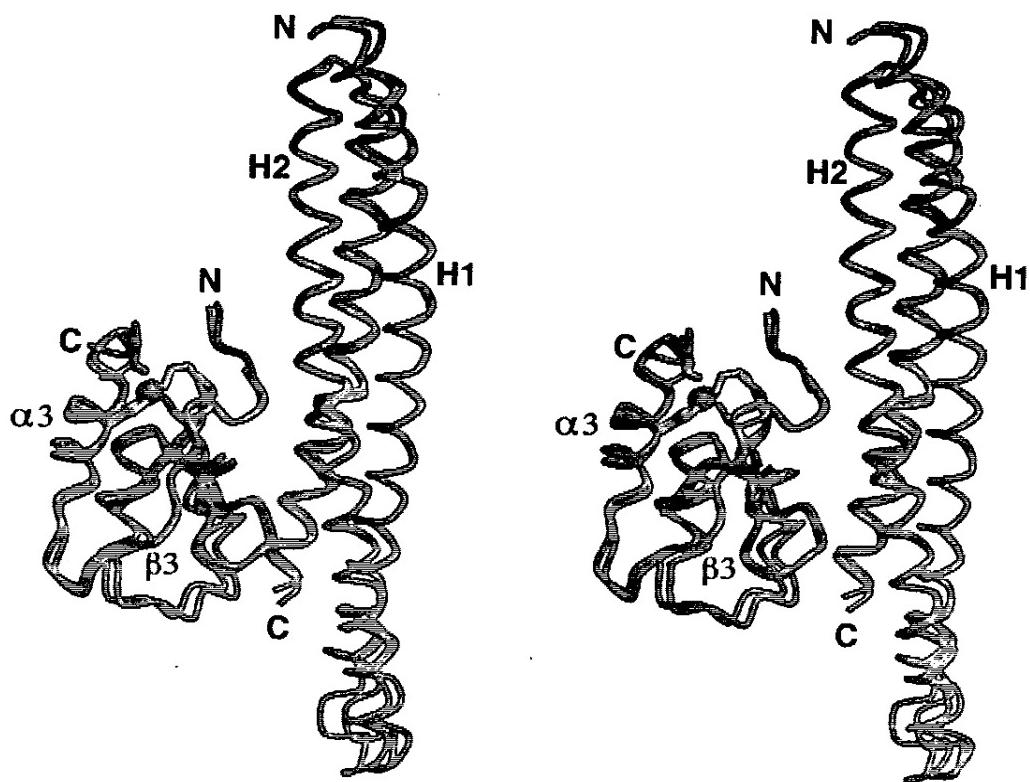

Smac/DIABLO
Reaper
Grim
Hid
hCasp-9
mCasp-9
xCasp-9

↓

A	V	P	I	A	Q	K
A	V	A	F	Y	I	P
A	I	A	Y	F	L	P
A	V	P	F	Y	L	P
A	T	P	F	Q	E	G
A	V	P	Y	Q	E	G
A	T	P	V	F	S	G

Fig. 1

a



b

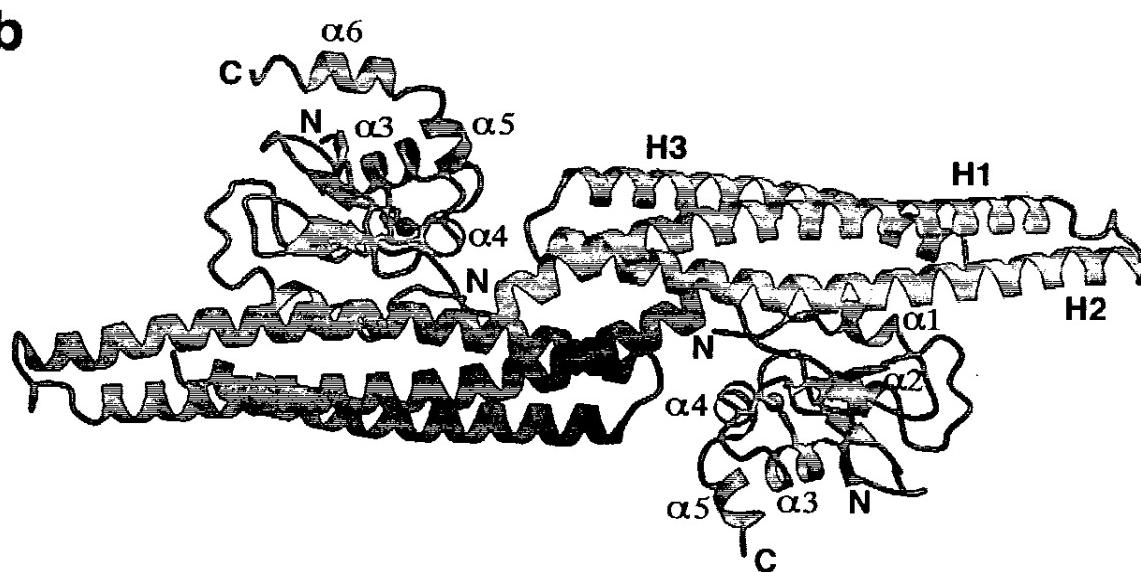


Fig. 2

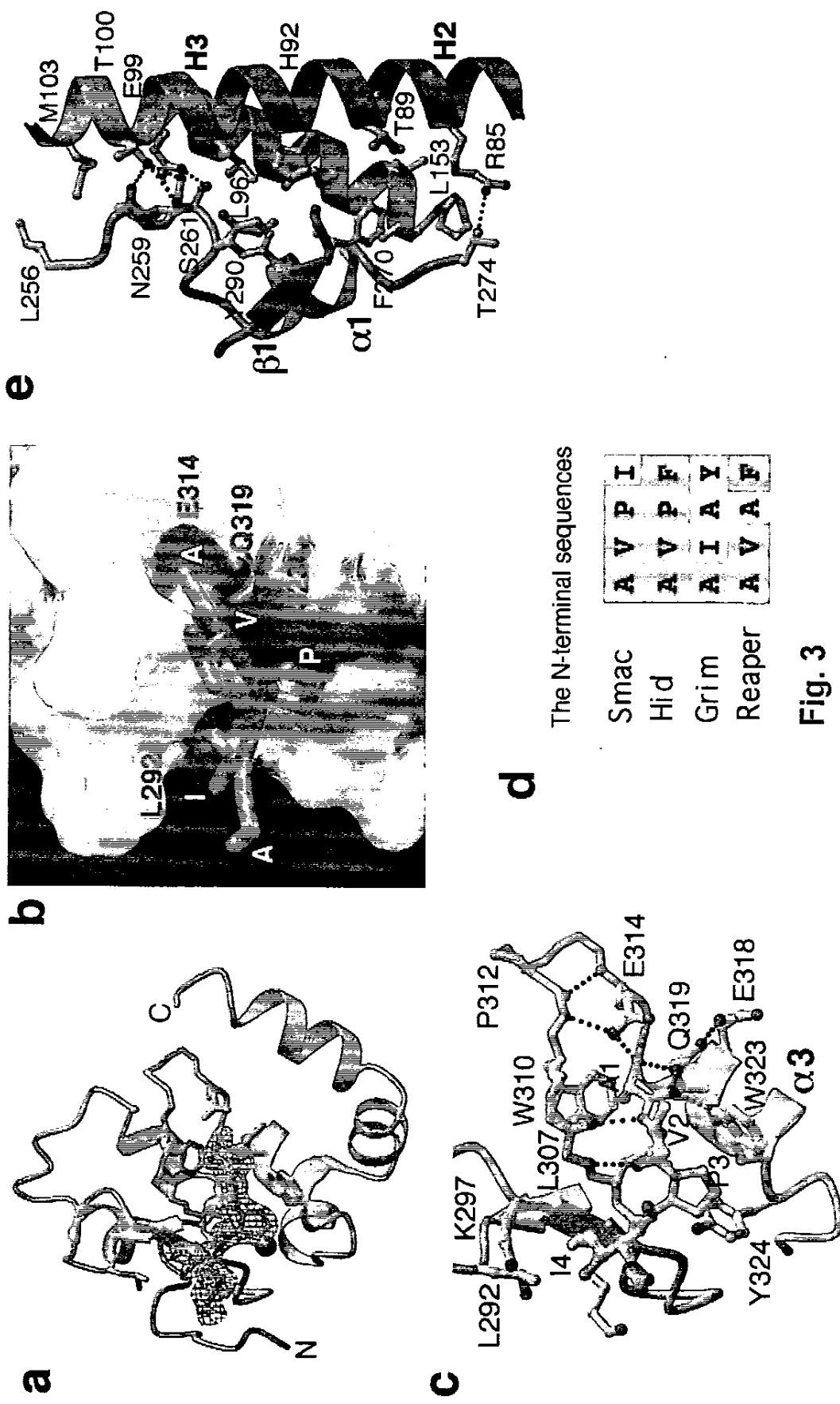
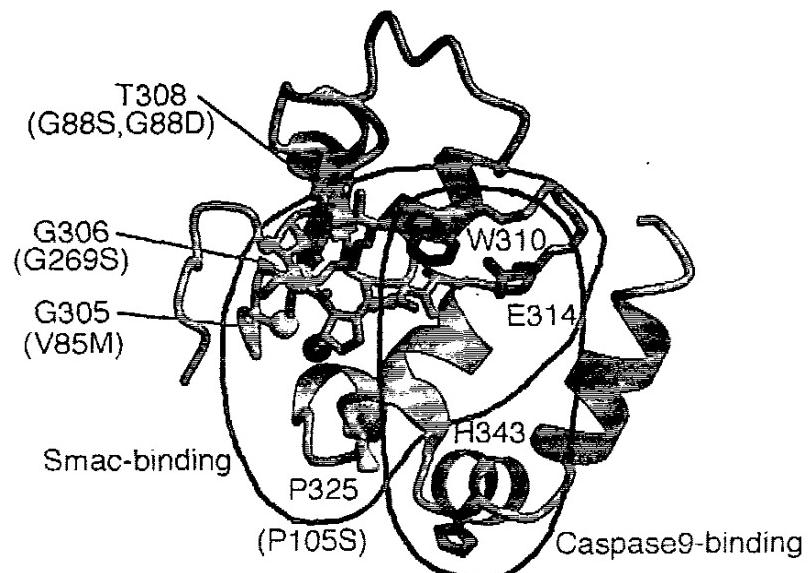


Fig. 3

a



b

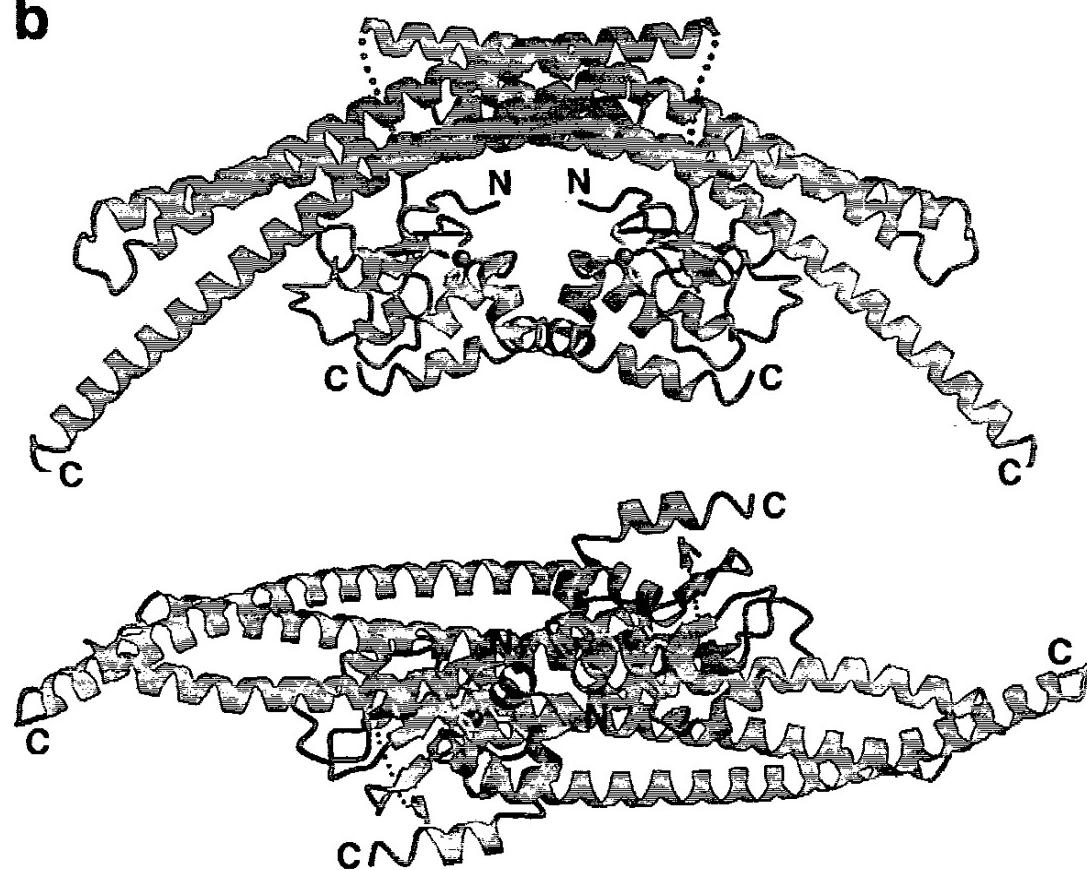


Fig. 4

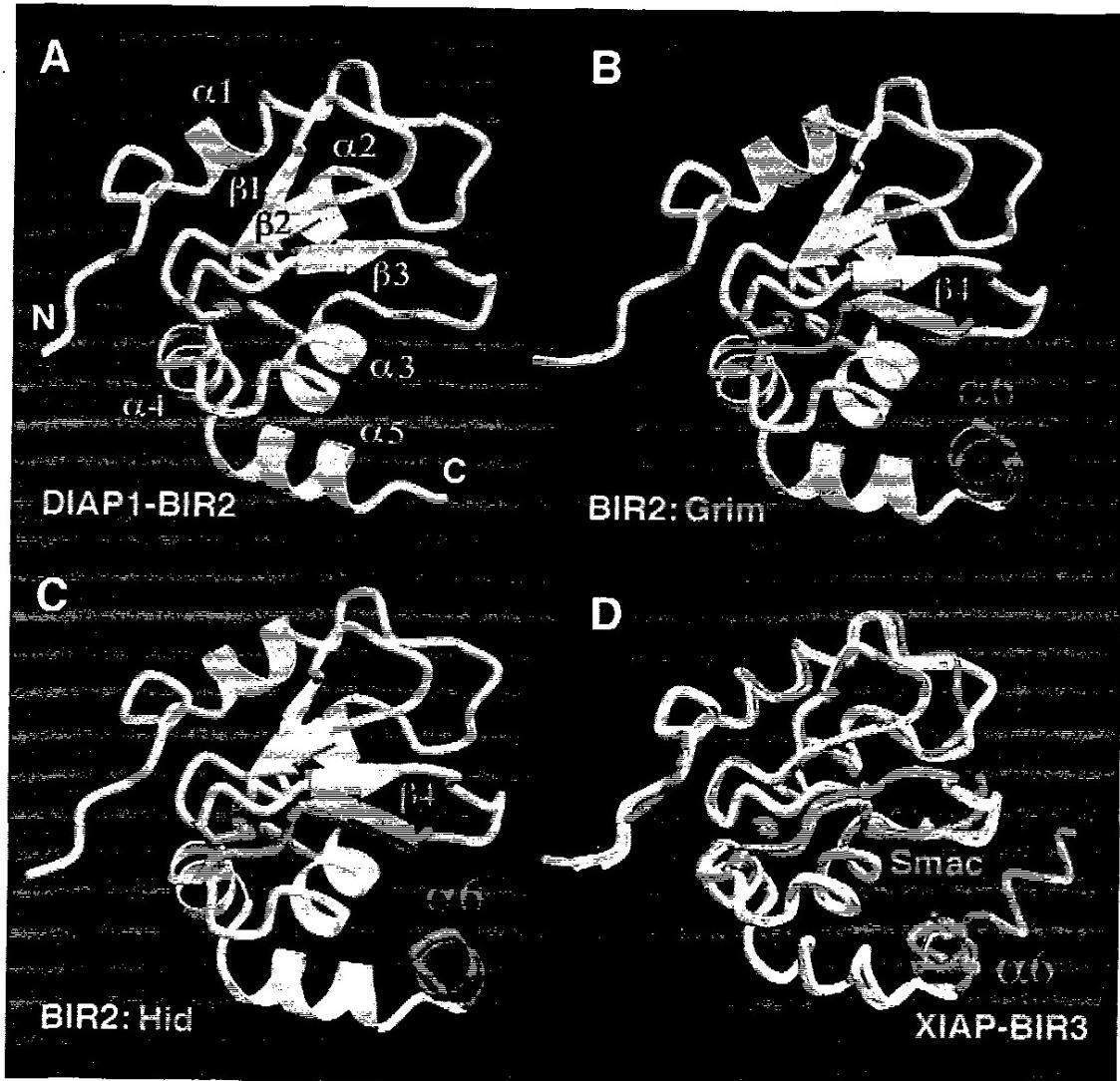
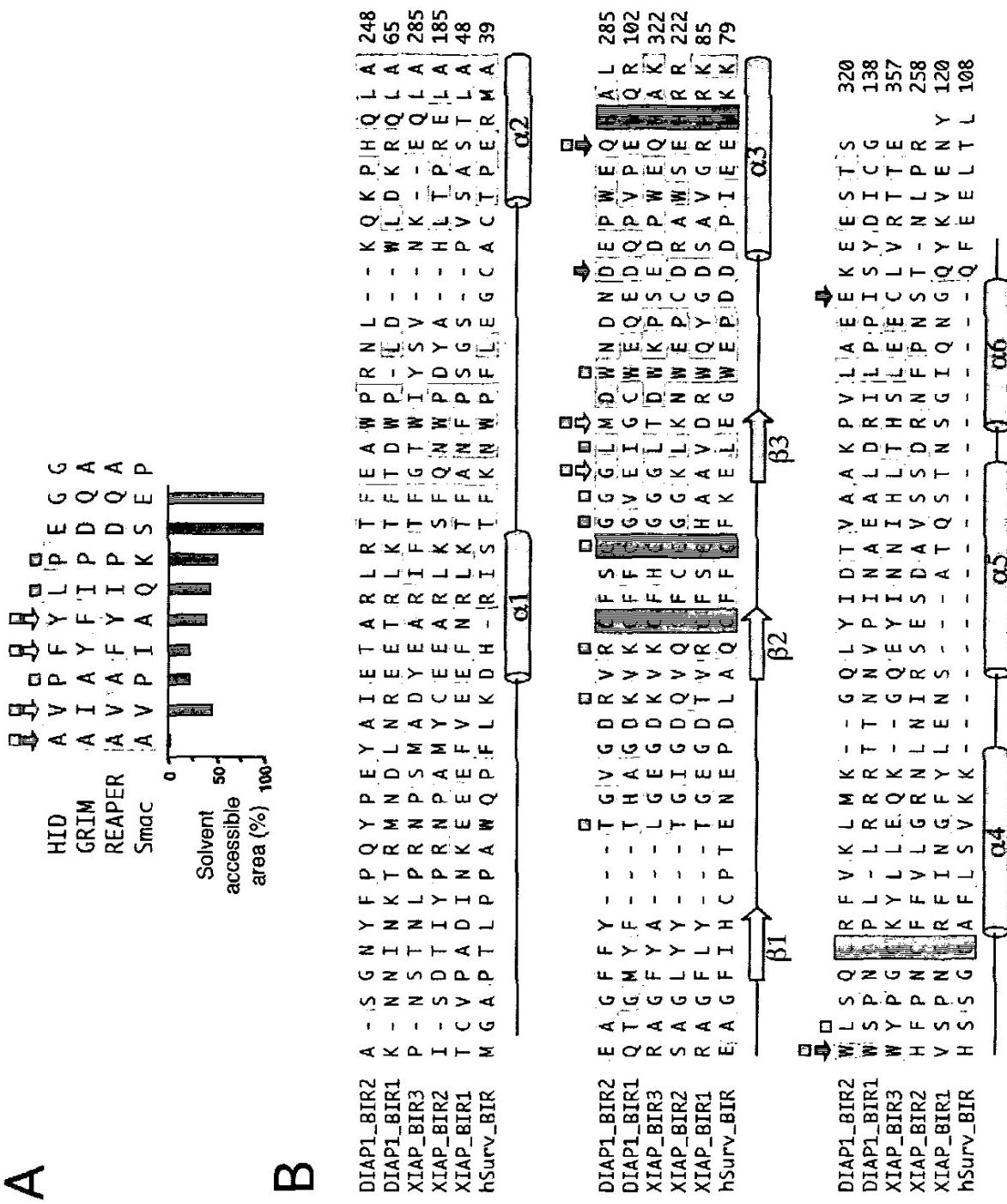


Fig. 5



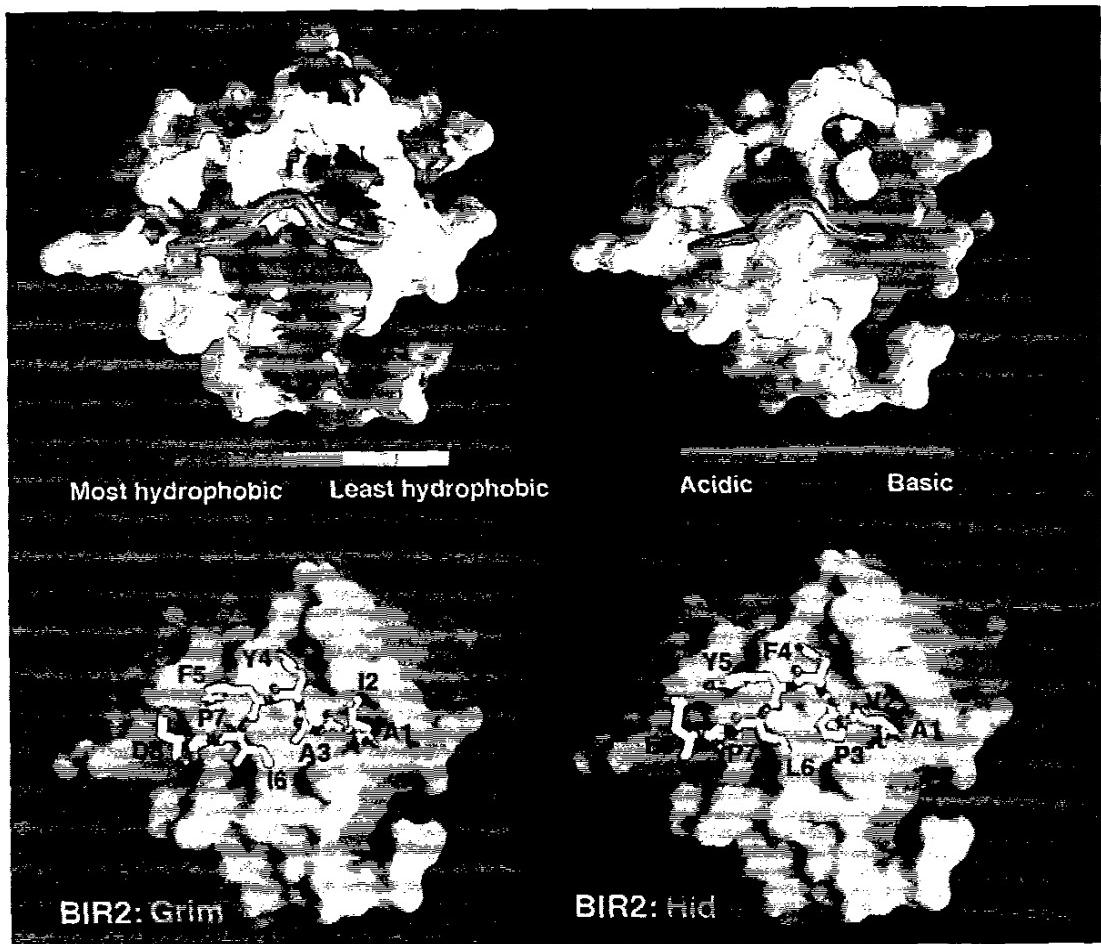


Fig. 7

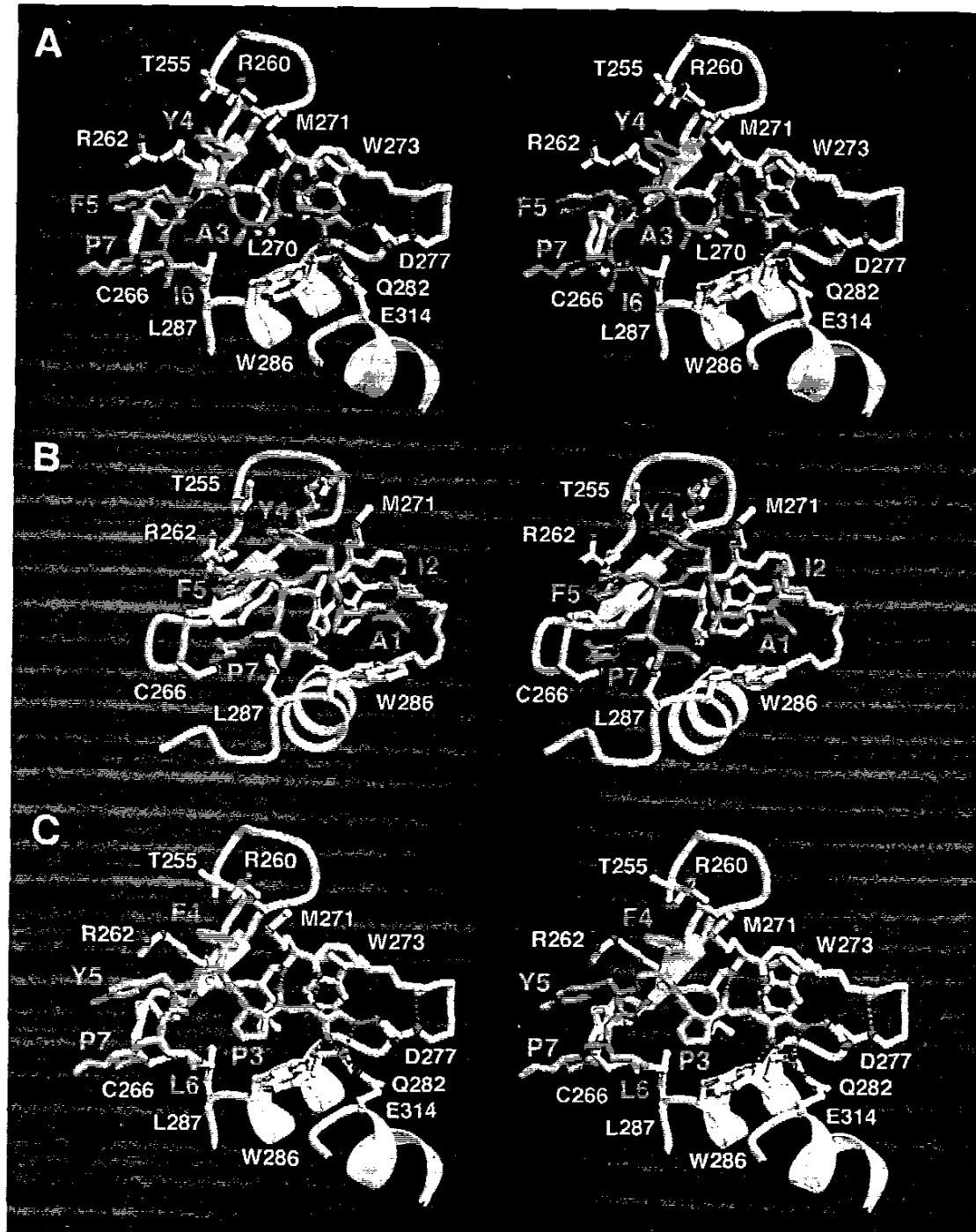


Fig. 8

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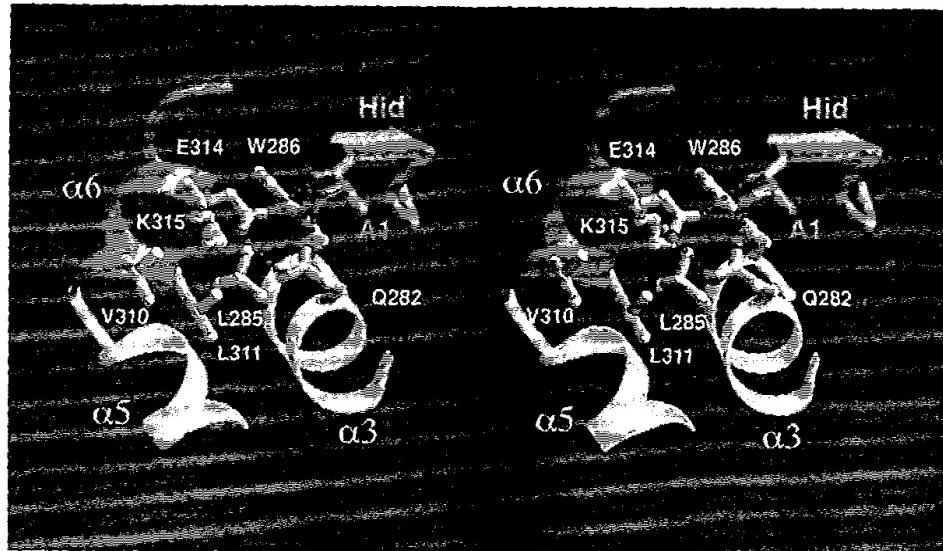
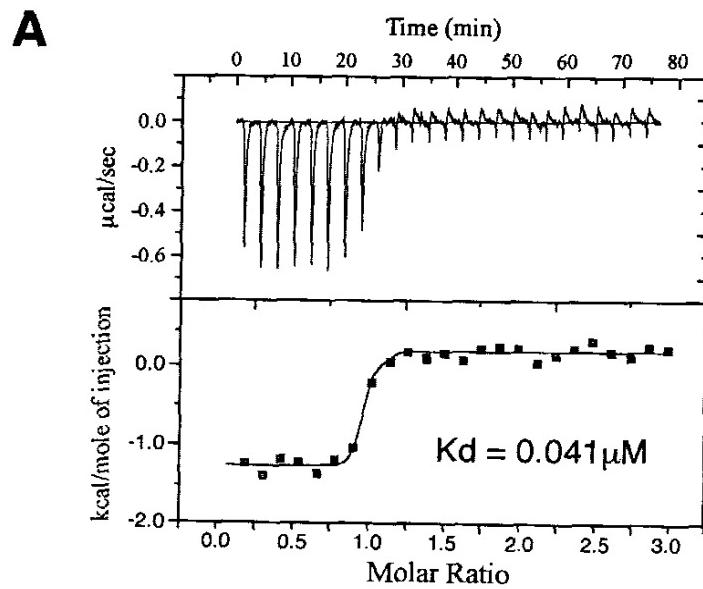


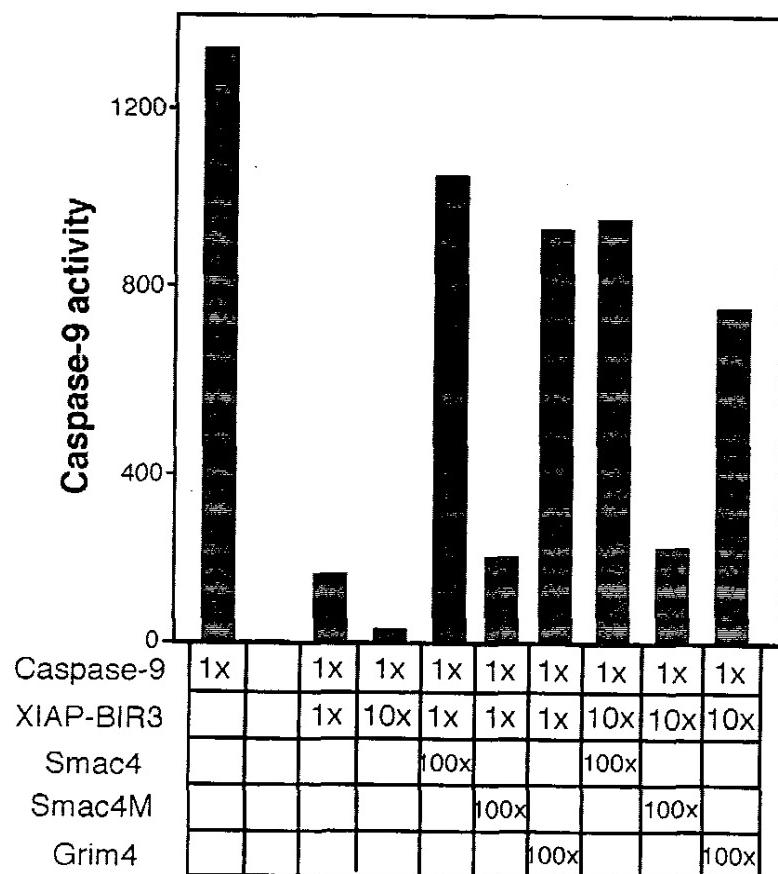
Fig. 9



B

Peptide	Dissociation constants (μM)	
	DIAP1-BIR2	XIAP-BIR3
Grim	0.24	12.6
Hid	0.041	0.12
Smac	n/a	0.55
Casp-9	n/a	0.25

Fig. 10



Peptide identity:
Smac4 : AVPI
Smac4M: MVPI
Grim4: AIAY

Fig. 11

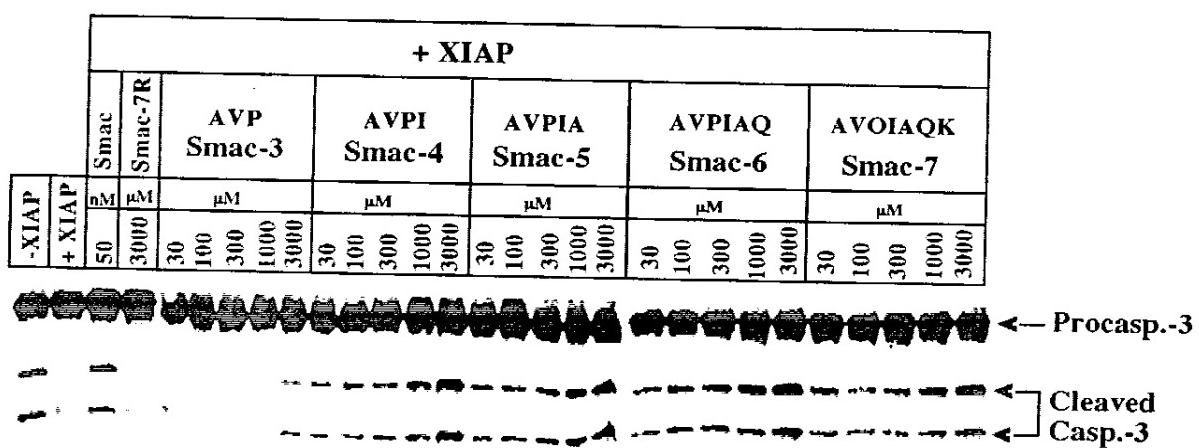


Fig. 12

a

Smac: NH ₂ -MTS-[AVPIA	QKSEP.....
Hid: NH ₂ -M-[AVPFY	LPEGG.....
Reaper: NH ₂ -M-[AVAFY	IPDQA.....
Grim: NH ₂ -M-[AIAF	IPDQA.....

b

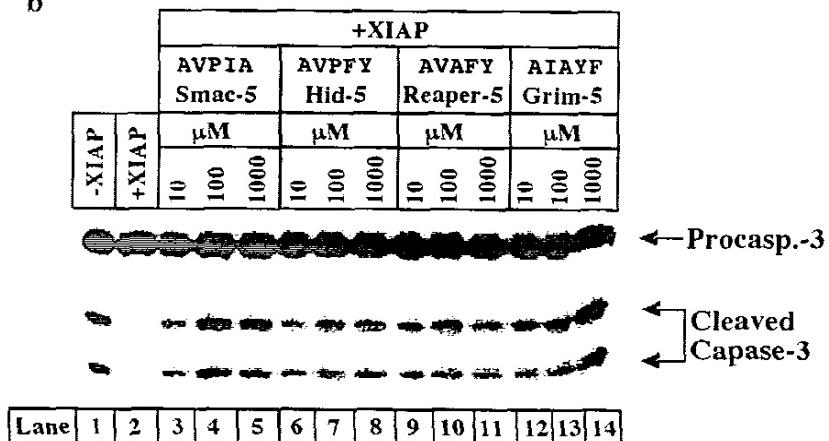


Fig. 13

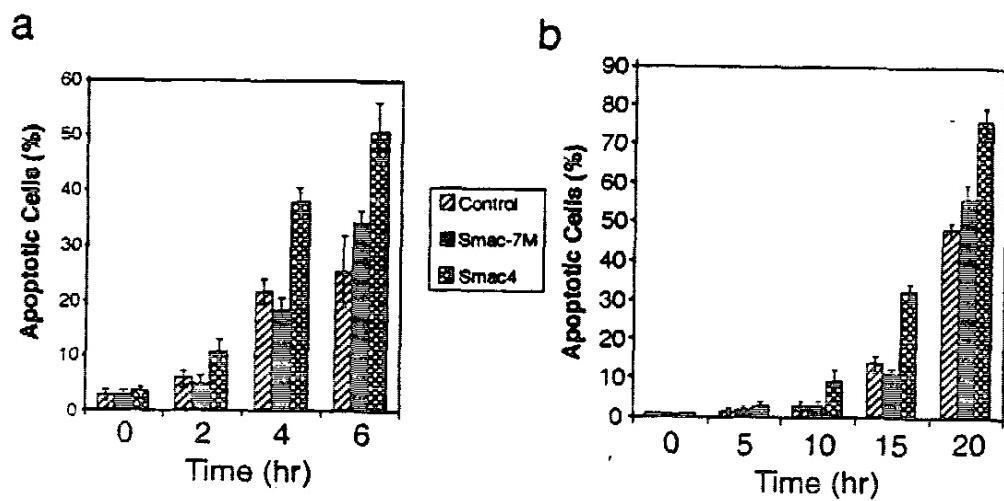


Fig. 14